## TABLE OF CONTENTS


Authentication Sheet ..... i
Curriculum Vitae ..... ii
Abstract ..... iii
Preface ..... iv
Table of Contents ..... vi
List of Figures ..... ix
List of Tables ..... xi
List of Appendices ..... xiv

CHAPTER I PRELIMINARY ..... 1
1.1. Background ..... 1
1.2. Problem Identification ..... 8
1.3. Problem Limitation ..... 8
1.4. Problem Formulation ..... 8
1.5. Objectives of Research ..... 9
1.6. Benefits of Research ..... 9
1.7. Operational Definition ..... 9

CHAPTER II LITERATURE REVIEW ..... 11
2. 1. Theoritical Framework ..... 11
2.1.1. Mathematics Learning ..... 11
2.1.2. Learning Model ..... 15
2.1.3. Problem Based Learning Model ..... 20
2.1.3.1. Learning Theories that Supports ..... 29
2.1.4. Creative Thinking Ability ..... 32
2.1.4.1. Definition of Thinking ..... 32

2.1.4.2. Definition of Creative ..... 33
2.1.4.3. Creative Thinking Ability ..... 34
2.1.5. Learning Theory that Suport Subject Matter ..... 37
2.1.6. Subject Matter ..... 38
2. 2. Relevant Researches ..... 44
2. 3. Conceptual Framework ..... 46
2. 4. Hypothesis of Action ..... 47

CHAPTER III RESEARCH METHODS ..... 48
3.1. Types of Research ..... 48
3.2. Location and Time of Research ..... 48
3.3. Subject and Object of Research ..... 48
3.4. Procedures of Research ..... 48
3.5. Research Instruments ..... 51
3.6. Data Analysis Techniques ..... 58
3.7. Indicators of Success ..... 61

CHAPTER IV RESEARCH RESULT AND DISCUSSION ..... 62
4.1. Research Result ..... 62
4.1.1. The Result of Research in cycle 1 ..... 62
4.1.1.1. Problem 1 ..... 62
4.1.1.2. Action Plan 1 ..... 63
4.1.1.3. Action Implementation 1 ..... 63
4.1.1.4. Observation and Evaluation 1 ..... 64
4.1.1.5. Reflection 1 ..... 81
4.1.2. The Result of Research in cycle 2 ..... 85
4.1.2.1. Problem 2 ..... 86
4.1.2.2. Action Plan 2 ..... 86
4.1.2.3. Action Implementation 2 ..... 86

4.1.2.4. Observation and Evaluation 2 ..... 87
4.1.2.5. Reflection 2 ..... 103
4.2. Research Findings ..... 107
4.3. Discussion of Research ..... 108
4.3.1. Students Creative Thinking Ability ..... 108
4.3.2. Students Activity Using Problem Based Learning ..... 111
CHAPTER V CONCLUSIONS AND RECOMMENDATIONS ..... 114
5.1. Conclusion ..... 114
5.2. Recommendation ..... 114
BIBLIOGRAPHY ..... 116